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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,682		/19/2003	Hyung-Jin Kim	P23708	2710
7055	7590 11/15/2005			EXAMINER	
		RNSTEIN, P.L.C	BELT, SAMUEL E		
1950 ROLAI RESTON, V		KE PLACE		ART UNIT	PAPER NUMBER
				3746	

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			TUM	
Office Action Summary		Application No.	Applicant(s) KIM ET AL.	
		10/642,682		
		Examiner	Art Unit	
		Samuel E. Belt	3746	
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence address	
WHI - Ext afte - If N - Fai Any	HORTENED STATUTORY PERIOD FOR REICHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stay reply received by the Office later than three months after the manned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a liod will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)区	Responsive to communication(s) filed on 19) August 2003.		
,	This action is FINAL . 2b)⊠ T			
3)[tters, prosecution as to the merits is			
	closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.I). 11, 453 O.G. 213.	
Disposi	tion of Claims			
4)区	Claim(s) 1-10 is/are pending in the applicati	on.		
	4a) Of the above claim(s) is/are without	Irawn from consideration.		
5)[Claim(s) is/are allowed.			
	Claim(s) <u>1-5 & 7-10</u> is/are rejected.			
,	Claim(s) <u>6</u> is/are objected to.			
8)[_	Claim(s) are subject to restriction an	a/or election requirement.		
Applica	tion Papers			
9)□	The specification is objected to by the Exam	iner.		
10)⊠	The drawing(s) filed on <u>19 August 2003</u> is/a			
	Applicant may not request that any objection to			
	Replacement drawing sheet(s) including the cor			
11)∟	The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action of form P10-152.	
Priority	under 35 U.S.C. § 119			
12)区	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
а)⊠ All b)□ Some * c)□ None of:			
	1. Certified copies of the priority docum			
	2. Certified copies of the priority docum			
	3. Copies of the certified copies of the p		received in this National Stage	
*	application from the International Bur		t raceived	
	See the attached detailed Office action for a	list of the certified copies no	received.	
Attachme	nt(s)			
	ice of References Cited (PTO-892)		Summary (PTO-413)	
	ice of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date Informal Patent Application (PTO-152)	

3) A Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/2004.

6) Other: ____.

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DETAILED ACTION

Information Disclosure Statement

1. It is noted that applicants Information disclosure statement submitted on 11/19/2004 was not in list form however examiner has considered the US applications cited thereon. In the event that this application is issued as a patent the references will not be printed on the face of the file.

Drawings

2. The drawings are objected to because the suction valve in Fig. 5 is labeled as (145) and according to applicant's specification the suction valve should be labeled as (147).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application

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must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1-5 and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by JP Publication (52-23707). As shown in the figure, JP Publication (52-23707) disclose an apparatus including the following:
 - A: A case having a gas suction pipe and a gas discharge pipe (1)
 - **B:** A frame unit positioned in the case (8)
 - C: A cylinder positioned at the frame unit and having a plurality of slots formed in a longitudinal direction on an outer circumferential surface (7)
 - **D:** A piston coupled with a reciprocating motor so as to linearly and reciprocally move into the cylinder and having a plurality of through holes formed at an outer side, said through holes communicating with the slots (23)
 - E: A gas muffler member positioned at an outer circumferential surface of the cylinder (11)

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F: Through holes configured to remain within a range of the slots while the piston moves linearly and reciprocally (27)

G: The direction of gas flowing through the slots and the through holes is transverse to the direction of the piston movement (not numbered; however, clearly seen in figure)

H: An echo space formed inside the gas muffler member (not numbered; however, clearly seen in figure)

I: The gas introduced into the echo space of the gas suction member through the gas suction pipe is introduced into the suction passage of the piston after passing through the slots and the through holes (not numbered; however, clearly seen in figure)

J: A gas muffler member including an inner housing and an outer housing coupled to the inner housing (not numbered; however, clearly seen in figure)

K: The gas muffler member communicates with the slots at one side thereof (not numbered; however, clearly seen in figure)

L: The gas muffler member communicates with the gas suction pipe (not numbered; however, clearly seen in figure)

Allowable Subject Matter

4. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel E. Belt whose telephone number is (571) 272-7820. The examiner can normally be reached on M-F, 8 - 4:30EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe can be reached on (571) 272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel E. Belt 11/04/2005

SEB